

SAMPLING PLAN
PRESQUE ISLE CHEMICAL SITE
EDINBORO, ERIE COUNTY, PENNSYLVANIA

Prepared by:
Brian T. Burris
May 9, 1989
Region 31 - Technical Assistance Team
WESTON/MP Division
Wheeling, West Virginia

Jack L. Downie, OSC, EPA Region III
Western Response and Preparedness Section
Wheeling, West Virginia

100437

Verbal approval by
Bhupi Khona on
9 May 89 15:30

Sampling Plan
Presque Isle Chemical Site
Edinboro, Erie County, Pennsylvania

PROJECT REQUESTED BY: Jack L. Downie, Sr. OSC, U.S. EPA

DATE REQUESTED: May 9, 1989

PROJECT OFFICER: Brian Burris, TAT, Region III ~~ETS~~

QUALITY ASSURANCE OFFICER: Bhupi Khona, RSO TAT, Region III

PROJECT DESCRIPTION

A. BACKGROUND

Presque Isle Chemical Site is located approximately 3/4 of a mile west from the town of Edinboro, Pa. at Box #5631 along Route 6N. The site consists of a metal building located on 28.66 acres of mostly wooded land. According to historical records, the site use to be a distillation solvent recycling facility, in operation from 1965 to 1970. The company moved its operations to Townville, Pa where PA DER investigated and found that the operator spreads selected industrial wastes on his fields with the intent of increasing the trace elements in the soil. This practice may have been instituted at the old location (Edinboro). During the preliminary assessment and FIT site investigation several bare patches of soil scattered throughout the property boundaries. Preliminary assessments have shown that approximately 100 yards from the building there exists a culvert with partially buried drums and debris along its track leading to (at that time) a dry drainage pool. Stressed vegetation was also observed along the sides of the culvert area. Initial analytical results from a site investigation revealed contamination in the soil of 230 ppb of hexachlorobenzene and 17.3 ppm of PCBs. Local officials contend that neighborhood children frequently play in and around the site.

B. OBJECTIVE

To document the presence of contamination in the soil and show the potential threat of further contamination from the deteriorating buried drums.

C. SCOPE

TAT will obtain a representative number of samples from the partially buried drums as available. TAT will also obtain soil samples in the culvert area where it is most likely to observe the migration of contaminants, leading to a collection pool and its corresponding drain pipe. Samples will also be taken in the areas of the bare patches of soil. This will provide information in determining the presence of toxic levels of contaminants in the surface soil.

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D. DATA USAGE

The data will be used to determine the identity of the contaminants in the drums and soil with respect to the potential hazards to the local residents through direct contact, and/or ingestion. If necessary the results will be forwarded to ATSDR for recommendations. All of these findings, collectively, will be used to determine if removal actions will be required at the site.

E. SAMPLING PROCEDURES

1. Drum samples will be obtained as the matrix of the material with in allows. Liquid material will be collected with clean, disposable, dedicated drum thieves. Solid/sludge material will be collected on drum thieves if possible or scooped out with stainless steel spoons.
2. Soil samples will be collected at a depth of 0-2" with clean, disposable, dedicated stainless steel spoons.
3. Samples will be collected in 8 oz. pre-sterilized jars with teflon liners.
4. Photodocumentation, log books, lab reports and chain of custody records will be handled as per TAT and EPA policy.
5. A background soil sample will be taken away from the affected area.

F. SAMPLE PACKAGING

All drum samples will be tagged with a signed chain of custody seal and placed in metal cans packed with vermiculite. The cans will be placed in cooler(s) also packed with vermiculite and sealed with a custody seal. The cooler will be properly labeled and bound with strapping tape, in accordance with DOT shipping regulations. All soil samples will be packaged and shipped as environmental samples and handled as per DOT regulations.

G. ANALYSIS

Analysis will be based on information from the historical operations at the facility and the site conditions found during the assessment. The drum samples will be analyzed for BNA, GC/MS as per SW846*, PCB & Pesticide GC SW846*, Metals by ICP, 100% confirmation. The soil samples will be analyzed for the same contaminants as well.

*Test Methods for Evaluating Liquid and Solid Wastes, Physical Chemical Method, SW846.

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H. QUALITY ASSURANCE/QUALITY CONTROL

Soil-BNAs:

1. One matrix spike.
2. One matrix spike duplicate.
3. Method blank.
4. GC/MS tuning data per analysis date(s).
5. Surrogate spikes in each sample.

Soil-PCBs:

1. One matrix spike.
2. One matrix spike duplicate.
3. Second column confirmation
4. Surrogate spike per analysis date(s).
5. Standards per analysis date(s).

Soil-Metals:

1. 100% Confirmation

Drum-BNAs:

1. GC/MS tuning data per analysis date(s).
2. Surrogate spikes in each sample.

Drum-PCBs:

1. Second column confirmation
2. Surrogate spike per analysis date(s).
3. Standards per analysis date(s).

Drum-Metals:

1. 100% Confirmation

WAYREN

No. E 03-954

TO: Janice Reddecliff
FROM: Mike Zickler Date: 5/16/89

PURCHASING USE ONLY

Purchase Order Assigned: 22811

Purchase Order Date: _____

Request that we obtain: ☒ Purchase ☐ Rent ☐ Repair ☐ Price Quotation ☐ Other

FROM: (Vendor name if preference)

SHIP TO: ROY F. WESTON, INC.BH/RT53 Haddonfield Rd., Suite 3063235 Omini DriveCherry Hill, NJ 08043Cincinnati, Ohio 45245

SHIP VIA: _____

FOB _____ TERMS _____

DELIVERY REQUIRED BY: 5/30/89

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1	1	Drum sample sludge, BNA, GC/MS as per SW846, PCB & Pesticide GC SW846, Metals by ICP, 100% confirmation		\$8,650.00
2	1	Drum Samples Gray Powder Solid, BNA, GC/MS as per SW846, PCB & Pesticide GC SW846, Metals by ICP, 100% confirmation		
3	7	Soil samples, BNA, GC/MS as per SW846, PCB & Pesticide GC SW846, Metals by ICP, 100% confirmation		
4	1	Matrix Spike for Item #3		
5	1	Matrix Spike Duplicate for Item #3		
		G. L. CODE: 4610.00		
		CLP was not contacted as per OCS instruction.		
		ICP serial dilution should be performed and interference checks as per EPA CLP protocol.		
		Praque Isle Chemical Site, Edinboro, Erie Co., PA		
Is this purchase in your Operating Plan? Yes () No ()				TOTAL COST \$8,650.00

Charge above item to: 2962-21-03-0740

U. S. EPA

160

Work Order No.

Project/Client Title

Div./Dept. No.

Project Director/Manager
or Responsible Head Approval

Date _____

Business Mgr. Rev.

Date _____

Purchasing Approval

Date _____

EPA 40 CFR 160.107

100441

Region III Sample Control Center Request Form

11/85 Rev. 4
(DO) (RT) (CW)

Case#: _____ SAS#: _____ Episode#: _____ Traf. Rpt. #'s: _____ to _____

Site Name: PRESQUE ISLE CHEMICAL SITE Date: 5/9/89

*Superfund Account #: _____ EPA Site#: _____ *(SI, REMI, REMO, ENF)

*Lat. _____ Long. _____ Tier _____

*Scheduling Requested by: BRIAN BURRIS Phone: (304) 233-1610

*EPA Project Officer: JACK DOWNIE OSC Phone: (304) 233-9831

*FIT, REM, TAT Proj. Officer: BRIAN BURRIS Phone: (304) 233-1610

*Sampler's Name: BRIAN BURRIS Phone: (304) 233-1610

*No. of Samples: Total: 9 *Concentration Level: (H, M, L)

*Requested: Org. Inorg. #Shipped: Org. Inorg.

Liquid: _____

Soil/Sed: _____

Tissue: _____

Other: Soil

Sampling Date(s): 5/11/89 - 5/12/89 Sampling as schedule (Completed or Incomplete)

*Analyses To Be Performed: L-liquid, S-soils/sed., F-fish, D-drum, Q-other- ARUM RESIDUE

Acid: _____ Pest: _____ VOA: _____ CLP Metals: _____ CN-: _____ Dioxin: _____ (ppt, ppb)

B/N: _____ PCB: _____ Tox: _____ SDWA Metals: _____ EP Tox (O or M): _____

Others: _____

*Proposed Sample Shipment Dates:

1) Date: / / # Samples: (1) 2) Date: / / # Samples: (1)

3) Date: / / # Samples: (1) 4) Date: / / # Samples: (1)

*Method of Shipment: _____

*t.a.t. Required: _____ Promised: / / Delivered: 100442 / /

SHO Contact: _____ Date: / / Contract#: _____

Organic Lab I:	Date Shipped: <u>/ /</u>	Airbill <u>/</u>
Organic Lab II:	Date Shipped: <u>/ /</u>	Airbill <u>/</u>
Organic Lab III:	Date Shipped: <u>/ /</u>	Airbill <u>/</u>
Inorganic Lab:	Date Shipped: <u>/ /</u>	Airbill <u>/</u>

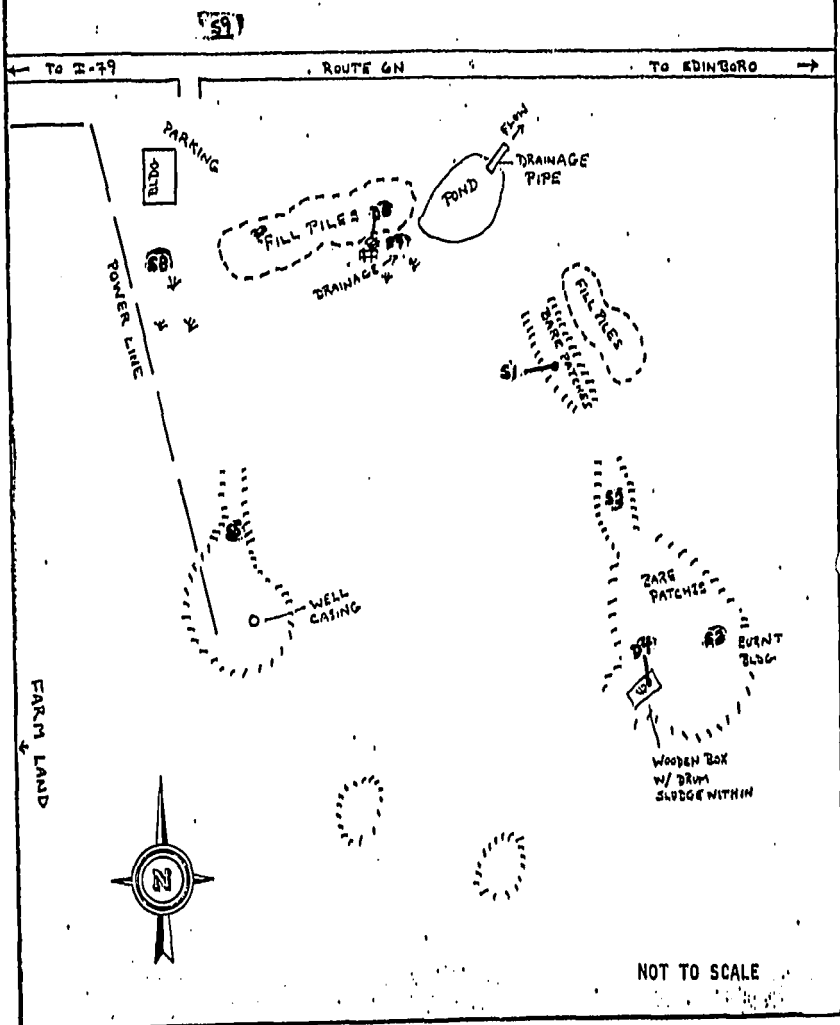
SAMPLE LOCATIONS
PRESQUE ISLE CHEMICAL SITE
MAY 11, 1989

SAMPLE #	SAMPLE TYPE	LOCATION
S1	GRAB	BARE PATCH SOUTH OF POND, NEXT TO FILL PILES
S2	GRAB	BARE PATCH SOUTH EAST OF POND, NEXT TO FILL PILES
S3	GRAB	BARE PATCH NORTH OF BURNT BUILDING
D4	GRAB	DRUM SLUDGE IN WOODEN BOX SOUTH EAST END OF PROPERTY
S5	GRAB	BARE PATCH AREA NORTH OF WELL CASING
D6	GRAB	PARTIALLY BURIED DRUM UP GRADIENT OF POND
S7	GRAB	DOWN GRADIENT OF SAMPLE #D6 DRUM
S8	GRAB	MARSH AREA SOUTH OF METAL BUILDING
S9	GRAB	BACKGROUND SOIL NORTH SIDE OF ROUTE 6N



WESTON SPER

TDD Number: 8905-18
PCS Number: 2414



PRESQUE ISLE CHEMICAL SITE
EDINBORO, ERIE COUNTY, PA

SAMPLING LOCATIONS MAY 11, 1989

100444